

SEQUENCE LISTING

<110> Reed, Guy L.

<120> Composition and Method for Enhancing Fibrinolysis

<130> 0609.4320003

<140>

<141> 2001-10-12

<150> 08/934,000

<151> 1997-09-19

<150> 60/026,356

<151> 1996-09-20

<160> 81

<170> PatentIn version 3.1

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> May be any Amino Acid

<400> 1

Xaa Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val  
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Asp Ile Gln Met Thr  
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<223> May be any Amino Acid

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Xaa Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val  
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<221> CDS

<222> (1)..(381)

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<221> sig\_peptide

<222> (1)..(60)

<223>

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Met Ser Val Leu Thr Gln Val Leu Xaa Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

ggt gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct 96  
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser  
1 5 10

gca tct gtg gga gaa act gtc acc atc aca tgt cga gca agt ggg aat 144  
Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn  
15 20 25

att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct 192  
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro  
30 35 40

cag ctc ctg gtc tat aat gca aaa acc tta gca gat ggt gtg cca tca 240

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser  
45 50 55 60

agg ttc agt ggc agt gga tca gga aca caa ttt tct ctc agg atc aac 288  
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Arg Ile Asn  
65 70 75

agc ctg cag cct gaa gat ttt ggg agt cat tac tgt caa cat ttt tgg 336  
Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp  
80 85 90

acc act ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa 381  
Thr Thr Pro Trp Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

<210> 5

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<222> (9)..(9)

<223> May be either Gly or Ala

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<223> Alpha-2 Antiplasmin Antibody

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Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser  
1 5 10

Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn  
15 20 25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro  
30 35 40

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser  
45 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Arg Ile Asn  
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp  
80 85 90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

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<222> (1)..(60)

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Met Ser Val Leu Thr Gln Val Leu Gly Leu Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

ggg gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct 96  
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser  
1 5 10

gca tct gtg gga gaa act gtc acc gtc aca tgt cga gca agt ggg aat 144  
Ala Ser Val Gly Glu Thr Val Thr Val Thr Cys Arg Ala Ser Gly Asn

15	20	25	
att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct			192
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro			
30	35	40	
cag ctc ctg gtc tat aat gca aga acc tta gca gat ggt gtg cca tca			240
Gln Leu Leu Val Tyr Asn Ala Arg Thr Leu Ala Asp Gly Val Pro Ser			
45	50	55	60
agg ttc agt ggc agt gga tca gga aca caa tat tct ctc aag atc aac			288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn			
65	70	75	
agc ctg cag cct gaa gat ttt ggg agt tat tac tgt caa cat ttt tgg			336
Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp			
80	85	90	
agt aat ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa			381
Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys			
95	100	105	

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Met Ser Val Leu Thr Gln Val Leu Gly Leu Leu Leu Trp Leu Thr
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Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
1 5 10

Ala Ser Val Gly Glu Thr Val Thr Val Thr Cys Arg Ala Ser Gly Asn
15 20 25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
30 35 40

Gln Leu Leu Val Tyr Asn Ala Arg Thr Leu Ala Asp Gly Val Pro Ser
45 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn  
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp  
80 85 90

Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

<210> 8

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<212> DNA

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<222> (1)..(60)

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Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

ggt gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct 96  
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser  
1 5 10

gca tct gtg gga gaa act gtc acc atc aca tgt cga gca agt ggg aat 144  
Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn  
15 20 25

att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct 192  
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro  
30 35 40

caa ctc ctg gtc tat aat gca aaa acc tta gca gat ggt gtg cca tca 240  
Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser  
45 50 55 60

agg ttc agt ggc agt gga tca gga aca caa ttt tct ctc aag atc aac 288  
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn  
65 70 75

agc ctg cag cct gaa gat ttt ggg agt cat tac tgt caa cat ttt tgg 336  
Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp  
80 85 90

acc act ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa 381  
Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

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Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr  
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Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser  
1 5 10

Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn  
15 20 25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro  
30 35 40

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser  
45 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn



65

70

75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp  
80 85 90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

<210> 10

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<223> Alpha-2 Antiplasmin Antibody

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<222> (1)..(414)

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-15 -10 -5

ctc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag 96  
Leu Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys  
1 5 10

cct gga gaa aca gtc aag atc tcc tgc aag gcc tct ggg tat acc ttc 144  
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
15 20 25

aca aac tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta 192  
 Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
 30 35 40 45

aag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat gct 240  
 Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala  
 50 55 60

gaa gag ttc aag gga cgg ttt gtc ttc tct ttg gaa acc tct gcc agc 288  
 Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Ala Ser  
 65 70 75

act gcc cat ttg cag atc aag aat ttc aga aat gag gac acg gct aca 336  
 Thr Ala His Leu Gln Ile Lys Asn Phe Arg Asn Glu Asp Thr Ala Thr  
 80 85 90

tat ttc tgt gca aga tgg gta cct ggg acc tat gct atg gac tac tgg 384  
 Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
 95 100 105

ggt caa gga acc tca gtc acc gtc tcc tca 414  
 Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
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<210> 11

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<222> (2)..(2)

<223> May be either Asp or Ala

<220>

<221> MISC\_FEATURE

<222> (6)..(6)

<223> May be either Asn or Thr

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<223> Alpha-2 Antiplasmin Antibody

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser

-15

-10

-5

Leu Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys  
1 5 10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
15 20 25

Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala  
50 55 60

Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Ala Ser  
65 70 75

Thr Ala His Leu Gln Ile Lys Asn Phe Arg Asn Glu Asp Thr Ala Thr  
80 85 90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
95 100 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
110 115

<210> 12

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<222> (1)..(414)

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<222> (1)..(57)

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-15 -10 -5	

atc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag	96
Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys	
1 5 10	

cct gga gag aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc	144
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe	
15 20 25	

aca aag tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta	192
Thr Lys Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu	
30 35 40 45	

aag tgg atg ggc tgg ata aac acc aac agt gga gag cca aca tat gct	240
Lys Trp Met Gly Trp Ile Asn Thr Asn Ser Gly Glu Pro Thr Tyr Ala	
50 55 60	

gaa gag ttc aag gga cgg ttt gcc ttc tct ttg gaa acc tct gcc agc	288
Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser	
65 70 75	

act gcc tat ttg cag atc aac aac ctc aaa aat gag gac tcg gct aca	336
Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr	
80 85 90	

tat ttc tgt gca aga tgg gta cct ggg acc tat gct atg gac tac tgg	384
Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp	
95 100 105	

ggt caa gga acc tca gtc acc gtc tcc tca	414
Gly Gln Gly Thr Ser Val Thr Val Ser Ser	
110 115	

<210> 13

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<222> (2)..(2)

<223> May be either Asp or Ala

<220>

<221> MISC\_FEATURE

<222> (6)..(6)

<223> May be either Asn or Thr

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<223> Alpha-2 Antiplasmin Antibody

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser  
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Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys  
1 5 10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
15 20 25

Thr Lys Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Asn Ser Gly Glu Pro Thr Tyr Ala  
50 55 60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser  
65 70 75

Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr  
80 85 90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
95 100 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
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<210> 14

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<222> (1)..(57)

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-15 -10 -5	

atc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag	96
Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys	
1 5 10	

cct gga gaa aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc	144
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe	
15 20 25	

aca aac tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta	192
Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu	
30 35 40 45	

aag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat gct	240
Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala	
50 55 60	

gaa gag ttc aag gga cgg ttt gcc ttc tct ttg gaa acc tct gcc agc	288
Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser	
65 70 75	

act gcc aat ttg cag atc aag aac ctc aaa aat gag gac acg gct aca	336
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Thr Ala Asn Leu Gln Ile Lys Asn Leu Lys Asn Glu Asp Thr Ala Thr  
80 85 90

tat ttc tgt gca aga tgg gta cct ggg acc tat gcc atg gac tac tgg 384  
Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
95 100 105

ggt caa gga acc tca gtc acc gtc tcc tca 414  
Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
110 115

<210> 15

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<222> (2)..(2)

<223> May be either Asp or Ala

<220>

<221> MISC\_FEATURE

<222> (6)..(6)

<223> May be either Asn or Thr

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<223> Alpha-2 Antiplasmin Antibody

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser  
-15 -10 -5

Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys  
1 5 10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
15 20 25

Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala  
50 55 60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser  
65 70 75

Thr Ala Asn Leu Gln Ile Lys Asn Leu Lys Asn Glu Asp Thr Ala Thr  
80 85 90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
95 100 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
110 115

<210> 16

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<212> DNA

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<220>

<221> CDS

<222> (31)..(411)

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<221> sig\_peptide

<222> (31)..(90)

<223>

<400> 16

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Met Ser Val Leu Thr Gln Val Leu



-20

-15

gcg ttg ctg ctg ctg tgg ctt aca ggt gcc aga tgt gac atc cag atg 102  
Ala Leu Leu Leu Leu Trp Leu Thr Gly Ala Arg Cys Asp Ile Gln Met  
-10 -5 1

act cag tct cca tcc tcc cta tct gca tct gtg gga gac aga gtc acc 150  
Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr  
5 10 15 20

atc aca tgt cga gca agt ggg aat att cac aat tat tta gca tgg tat 198  
Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr Leu Ala Trp Tyr  
25 30 35

cag cag aaa cag gga aaa tct cct caa ctc ctg gtc tat aat gca aaa 246  
Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val Tyr Asn Ala Lys  
40 45 50

acc tta gca agt ggt gtg cca tca agg ttc agt ggc agt gga tca gga 294  
Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
55 60 65

aca gat ttt act ctc acc atc agc agc ctg cag cct gaa gat ttt ggg 342  
Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Gly  
70 75 80

agt cat tac tgt caa cat ttt tgg acc act ccg tgg acg ttc ggt gga 390  
Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp Thr Phe Gly Gly  
85 90 95 100

ggc acc aag ctg gaa atc aaa 411  
Gly Thr Lys Leu Glu Ile Lys  
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<210> 17

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<223> Alpha-2 Antiplasmin Antibody

<400> 17

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser  
1 5 10

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gly Asn  
15 20 25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro  
30 35 40

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Ser Gly Val Pro Ser  
45 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser  
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp  
80 85 90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

<210> 18

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<222> (1)..(417)

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-20 -15 -10 -5

ggt gcc aga tgt cag atc cag ttg gtg cag tct gga tct gag ctg aag 96  
Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys  
1 5 10

aag cct gga gcc tca gtc aag atc tcc tgc aag gct tct ggg tat acc 144  
Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr  
15 20 25

ttc aca aac tat gga atg aac tgg gtg cga cag gct cca gga caa ggt 192  
Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly  
30 35 40

tta gag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat 240  
Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr  
45 50 55 60

gct gaa gag ttc aag gga cgg ttt gtc ttc tct ttg gac acc tct gtc 288  
Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val  
65 70 75

acc act gcc tat ttg cag atc agc agc ctc aaa gct gag gac acg gct 336  
Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala  
80 85 90

gtg tat ttc tgt gca aga tgg gta cct ggg acc tat gcc atg gac tac 384  
Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr  
95 100 105

tgg ggt caa gga acc acg gtc acc gtc tcc tca 417  
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
110 115

<210> 19

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<223> Alpha-2 Antiplasmin Antibody

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Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys  
1 5 10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr  
15 20 25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly  
30 35 40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr  
45 50 55 60

Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val  
65 70 75

Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala  
80 85 90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr  
95 100 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
110 115

<210> 20

<211> 447

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-20 -15

gcg ttg ctg ctg ctg tgg ctt aca ggt gcc aga tgt cag atc cag ttg 102  
Ala Leu Leu Leu Leu Trp Leu Thr Gly Ala Arg Cys Gln Ile Gln Leu  
-10 -5 1

gtg cag tct gga gct gag gtg aag aag cct gga gcc tca gtc aag atc 150  
Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Ile  
5 10 15 20

tcc tgc aag gct tct ggg tat acc ttc aca aac tat gga atg aac tgg 198  
Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn Trp  
25 30 35

gtg cga cag gct cca gga caa ggt tta gag tgg atg ggc tgg ata aac 246  
Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Asn  
40 45 50

acc aag agt gga gag cca aca tat gct gaa gag ttc aag gga cgg ttt 294  
Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe Lys Gly Arg Phe  
55 60 65

acc ttc acc ttg gac acc tct acg agc act gcc tat ttg gag atc agg 342  
Thr Phe Thr Leu Asp Thr Ser Thr Ser Thr Ala Tyr Leu Glu Ile Arg  
70 75 80

agc ctc aga tct gac gac acg gct gtg tat ttc tgt gca aga tgg gta 390  
Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Val  
85 90 95 100

cct ggg acc tat gcc atg gac tac tgg ggt caa gga acc acg gtc acc 438  
Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr  
105 110 115

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Val Ser Ser

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<400> 21

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr  
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Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ala Glu Val Lys  
1 5 10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr  
15 20 25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly  
30 35 40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr  
45 50 55 60

Ala Glu Glu Phe Lys Gly Arg Phe Thr Phe Thr Leu Asp Thr Ser Thr  
65 70 75

Ser Thr Ala Tyr Leu Glu Ile Arg Ser Leu Arg Ser Asp Asp Thr Ala  
80 85 90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr  
95 100 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
110 115

<210> 22

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33

<210> 23

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42

<210> 24

<211> 40

<212> DNA

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<400> 24

actagtcgac atgagtgtgc tcactcaggt cctggsgett

40

<210> 25

<211> 88

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tagggagacc caagcttgg accaatTTaa attgatatt ccttaggtct cgagtctcta 60

gataaccggg caatcgattg ggattctt 88

<210> 26

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<400> 26

gacactatag aatagggccc ttccgcggtt ggatccaaca cgtgaagcta gcaagcggcc 60

gcaagaattc caatcgattg accggtta 88

<210> 27

<211> 41

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<210> 28

<211> 41

<212> DNA

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<400> 28

gatcggcgcc aaaggcgcg cgcagggtcac ccgggctagc a

41

<210> 29

<211> 32

<212> DNA

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<400> 29

ccgggcctct caaaaaagg aaaaaagca tg

32

<210> 30

<211> 24

<212> DNA

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<400> 30

ctttttttcc cttttttgag aggc

24

<210> 31

<211> 74

<212> DNA

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gagatggagt ttgg 74

<210> 32

<211> 72

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<400> 32

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attcgaagcc gg 72

<210> 33

<211> 24

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<400> 33

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<210> 34

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<212> DNA

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<400> 34

ctcgaggggt caccacgctg ctga

24

<210> 35

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<212> DNA

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<400> 35

aacagctatg accatgatta c

21

<210> 36

<211> 21

<212> DNA

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<400> 36

cacccagcct gtgcctgcct g

21

<210> 37

<211> 30

<212> DNA

<213> Artificial Sequence

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<400> 37

cgattggaat tcttgcggcc gcttgctagc

30

<210> 38

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 38

cttgcggccg cttgctagca tggattgggt gtggaacttg ctattcctga tggcagctgc

60

ccaaagtatc caagcacaga

80

<210> 39

<211> 80

<212> DNA

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cttgactgtt tctccaggct tcttcagctc aggtccagac tgcaccaact ggatctgtgc

60

ttggatactt tgggcagctg

80

<210> 40

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<212> DNA

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<223> Alpha-2 Antiplasmin Antibody

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aactatggaa tgaactgggt 80

<210> 41

<211> 80

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<400> 41

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tcattccata gtttgtgaag 80

<210> 42

<211> 80

<212> DNA

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gacggtttgc cttctctttg 80

<210> 43

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<400> 43

tcctcatttt tgaggttctt gatctgcaaa ttggcagtgc tggcagaggt ttccaaagag 60

aaggcaaacc gtcccttgaa 80

<210> 44

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<400> 44

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tgggacctat gccatggact 80

<210> 45

<211> 80

<212> DNA

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<400> 45

tgggcccttg gtgctagctg aggagacggt gactgaggtt ccttgacccc agtagtccat 60

ggcataggtc ccaggtaccc 80

<210> 46

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 46

gggaagacgg atgggccctt ggtgctagc

29

<210> 47

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 47

atttaaattg atatctcctt aggtctcgag

30

<210> 48

<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 48

atttaaattg atatctcctt aggtctcgag atgagtgtgc tcactcaggt cctggcggtg

60

ctgctgctgt ggcttacag

79

<210> 49

<211> 78

<212> DNA

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ccacagcagc agcaacgc 78

<210> 50

<211> 78

<212> DNA

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<400> 50

gtctccagcc tccctatctg catctgtggg agaaactgtc accatcacat gtcgagcaag 60

tggaatatt cacaatta 78

<210> 51

<211> 78

<212> DNA

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tatagaccag gagctgagga gattttccct gtttctgctg ataccatgct aaataattgt 60

gaatattccc acttgctc 78

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<211> 78

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aaatctcctc agctcctggt ctataatgca aaaaccttag cagatggtgt gccatcaagg 60

ttcagtggca gtggatca 78

<210> 53

<211> 78

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ctgccactga accttgat 78

<210> 54

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cgttcggtgg aggcacca 78

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gcctccaccg aacgtccacg g 81

<210> 56

<211> 30

<212> DNA

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<400> 56

tcgattgacc gggtatctag agactcgaga 30

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<400> 57

cttgcggccg cttgctagca tgagtgtgct cactcaggtc ctggcggttg tgctgctgtg 60

gcttacagggt gccagatgtc 80

<210> 58

<211> 80

<212> DNA

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<400> 58

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ggcacctgta agccacagca 80

<210> 59

<211> 80

<212> DNA

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<223> Alpha-2 Antiplasmin Antibody

<400> 59

gagctgaaga agcctggagc ctcagtcaag atctcctgca aggcttctgg gtataccttc 60

acaaactatg gaatgaactg 80

<210> 60

<211> 80

<212> DNA

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ttccatagtt tgtgaaggta 80

<210> 61

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<212> DNA

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<400> 61

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agggacgggtt tgtcttctct 80

<210> 62

<211> 80

<212> DNA

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<211> 80

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acctgggacc tatgcatgg 80

<210> 64

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ataggtccca ggtacccatc 80

<210> 65

<211> 80

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tgctgtggct tacaggtgcc agatgtcaga tccagttggt gcagtctgga gctgaggtga 60

agaagcctgg agcctcagtc 80

<210> 66

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tagagtggat gggctggata aacaccaaga gtggagagcc aacatatgct gaagagttca 60

agggacggtt taccttcacc 80

<210> 67

<211> 80

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gtaaaccgtc ccttgaactc 80

<210> 68

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tttggagatc aggagcctca gatctgacga cacggctgtg tatttctgtg caagatgggt 60

acctgggacc tatgcatgg 80

<210> 69

<211> 78

<212> DNA

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<400> 69

agatgcagat agggaggatg gagactgagt catctggatg tcacatctgg cacctgtaag 60

ccacagcagc agcaacgc 78

<210> 70

<211> 78

<212> DNA

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<223> Alpha-2 Antiplasmin Antibody

<400> 70

gtctccatcc tccctatctg catctgtggg agacagagtc accatcacat gtcgagcaag 60

tgggaatatt cacaatta 78

<210> 71

<211> 78

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<400> 71

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ttcagtgga gtggatca 78

<210> 72

<211> 78

<212> DNA

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<400> 72

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ctgccactga accttgat 78

<210> 73

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<212> PRT

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<400> 73

Tyr Pro Arg Ser Ile Tyr Ile Arg Arg Arg His Pro Ser Pro Ser Leu  
1 5 10 15

Thr Thr

<210> 74

<211> 15

<212> PRT

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<400> 74

Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser  
1 5 10 15

<210> 75

<211> 107

<212> PRT

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<400> 75

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly  
1 5 10 15

Glu Thr Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Xaa Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Gln Xaa Ser Leu Xaa Ile Asn Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 76

<211> 107

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<223> May be any Amino Acid

<400> 76

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1 5 10 15

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Xaa Ile Asn Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 77

<211> 107

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<223> May be any Amino Acid

<400> 77

Asp Ile Gln Met Thr Gln Ser Pro Xaa Ser Leu Ser Ala Ser Val Gly  
1 5 10 15

Xaa Xaa Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Xaa Thr Leu Ala Xaa Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Xaa Xaa Xaa Leu Xaa Ile Xaa Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 78

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<222> (89)..(89)

<223> May be any Amino Acid

<400> 78

Gln Ile Gln Leu Val Gln Ser Gly Xaa Glu Xaa Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe  
50 55 60



Lys Gly Arg Phe Xaa Phe Xaa Leu Asp Thr Ser Xaa Ser Thr Ala Tyr  
65 70 75 80

Leu Xaa Ile Xaa Ser Leu Xaa Xaa Xaa Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
100 105 110

Thr Thr Val Thr Val Ser Ser  
115

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20 25 30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met  
35 40 45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe  
50 55 60

Lys Gly Arg Phe Xaa Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Xaa  
65 70 75 80

Leu Gln Ile Xaa Asn Xaa Xaa Asn Glu Asp Xaa Ala Thr Tyr Phe Cys  
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
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Thr Ser Val Thr Val Ser Ser  
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			20					25					30		

Gly	Met	Asn	Trp	Val	Lys	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Lys	Trp	Met
		35					40					45			

Gly	Trp	Ile	Asn	Thr	Lys	Ser	Gly	Glu	Pro	Thr	Tyr	Ala	Glu	Glu	Phe
	50					55					60				

Lys Gly Arg Phe Xaa Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Xaa  
65 70 75 80

Leu Gln Ile Lys Asn Xaa Xaa Asn Glu Asp Thr Ala Thr Tyr Phe Cys  
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
100 105 110

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Xaa Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr  
20 25 30

Gly Met Asn Trp Val Xaa Gln Ala Pro Gly Xaa Gly Leu Xaa Trp Met  
35 40 45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe  
50 55 60

Lys Gly Arg Phe Xaa Phe Xaa Leu Xaa Thr Ser Xaa Ser Thr Ala Xaa  
65 70 75 80

Leu Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Ala Xaa Tyr Phe Cys  
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
100 105 110

Thr Xaa Val Thr Val Ser Ser  
115